Examiner

Signature

) IFE 3	Patent and Tra	ademark Office: U.S. DEPARTMENT OF COMMERCE
Substitute for form 1449A/PTO	Application Number	09/739,589 <b>RECEIVED</b>
AR 2 0 2003 11 INFORMATION DISCLOSURE	Filing Date	12/15/00
STATEMENT BY APPLICANT	First Named Inventor	Steven Teig JUL 1 1 2003
CANFINARIE	Group Art Unit	2811 OFFICE OF PETITIONS
(use as many sheets as necessary)	Examiner Name	A.M. Thompson
Sheet 1 of 1	Attorney Docket Number	SPLX.P0014

kamine Initials	Ci Su	Number Ki	U.S. Patent Document umber Kind Code <sup>2</sup> Name of Patentee or Applicant of Cited Document		-Date of Publication MM-DD-YYYY	Relation to Present Application	
$\mathcal{D}^{()}$	1.	6,516,455	B1	Teig, et al.	02-04-03"		
				U.S. PATENT DOCUMENT	S		
aminer Irritials	. Cit	Number Kir (i	oument od Code <sup>2</sup> f known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages; Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	2.	2001/ 0003843	A1	Scepanovic et al.	06-14-01	Transvers Tigures Appear	
$\Delta$	3.	4,615,011		Linsker	09-30-86		
1	4.	5,097,422		Corbin, II et al.	03-17-92		
	5.	5,532,934		Rostoker	07-12-96	6.	
	6.	5,566,078		Ding et al.	10-15-96		
	7.	5,578,840		Scepanovic et al.	11-26-96		
$\perp \perp$	8.	5,634,093		Ashida et al.	05-27-97		
Ш	9.	5,636,125		Rostoker et al.	06-03-97		
$\perp \downarrow$	10.	5,650,653		Rostoker et al.	07-22-97		
	11.	5,742,086		Rostoker et al.	04-21-98		
	12:	5,757,656		Hershberger et al.	05-26-98		
	13.	5,777,360		Rostoker et al.	07-07-98		
$\perp$	14.	5,811,863		Rostoker et al.	09-22-98		
Ш	15.	5,822,214		Rostoker et al.	10-13-98		
	16.	5,859,449		Kobayashi et al.	01-12-99		
	17.	5,898,597		Scepanovic et al.	04-27-99		
$\coprod$	18.	5,973,376		Rostoker et al.	10-26-99	· · · · · · · · · · · · · · · · · · ·	
$\coprod$	19.	6,035,108		Kikuchi	03-07-00		
	20.	6,058,254		Scepanovic et al.	05-02-00		
$\prod$	21.	6,068,662		Scepanovic et al.	05-30-00		
W	22/	6,123,736		Pavisic et al.	09-26-00		

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date

Considered

<sup>&</sup>lt;sup>1</sup>Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if . English language Translation is attached.

. [	ું છે	Substitute for fo	m 1449A/P	TO .	Application Number	09/739,589
iar P	0 2003 W	RMATION	DISCL	SÉUDE	Filing Date	12/15/00
-1		TEMENT B			First Named Inventor	Steven Teig
29 50	S. Adries	:	•		Group Art Unit	2811
	- (1	ise as many shee	its as neces	sary)	Examiner Name	A.M. Thompson
1.	Sheet	2	of ·	2	Attorney Docket Number	SPLX.P0014

	شر		*		J.S. PA	TENTS RELATED TO THE PRESE	NT APPLICATION	S
M	X		23.	6,134,702		Scepanovic et al.	10-17-00	AND THE RESERVED AND THE SERVED AND
	X	1	24.	6,155,725		Scepanovic et al.	12-05-00	
$\mathbf{H}$	Ł	$\perp$	25.	6,175,950		Scepanovic et al.	. 01-16-01	
Ц	Ŀ	<u> </u>	26.	6,216,252	<b>B</b> 1	Dangelo et al.	04-10-01	
Ц	$\perp$		27.	6,230,306	B1	Raspopovic et al.	05-08-01	
Ш	:		28.	6,247,167	B1	Raspopovic et al.	06-12-01	
Ц		L	29.	6,249,902	B1	Igusa et al.	06-19-01	
Ш	_		30.	6,260,179	B1	Ohsawa et al.	07-10-01	
	<u> </u> .	L	31.	6,262,487	B1	Igarashi et al.	07-17-01	<del></del>
Ш	<u> </u>	L	32.	6,289,495	B1	Raspopovic et al.	09-11-01	
	L		33.	6,301,686	B1	Kikuchi et al.	10-09-01	
Ш			34.	6,385,758	B1	Kikuchi et al.	05-07-02	
			35.	6,401,234	B1	Alpert et al.	06-04-02	
			36.	6,405,358	B1	Nuber	06-11-02	A
			37.	6,412,097	B1	Kikuchi et al.	06-25-02	
			38.	6,436,804	B2	Igarashi et al.	08-20-02	
E		Ž.	39.	6,463,575	B1	Takahashi	10-08-02	

	传说	分級			FOREIGN PATENT DOCUMENTS	83375		
Bxaminer Initials	Cite No.1	Fo Office <sup>3</sup>	reign Patent Do	Kind Code (if known) <sup>5</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
	40.	JP	64-15947		O 4.1	01-19-89	reaevant rigures Appear	-

ı	$\mathcal{A}$	, , ,		A MANAGEMENT AND A STATE OF THE	
ı	-77 · · ·			NON PATENT LITERATURE DOCUMENTS	$\mathbf{x} \in \mathbb{R}^{n}$
I	Examine		Cito	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriets) title of the article (when appropriets)	
ŀ	\Initials	<del>-  </del> -	No.		т <sup>6</sup>
ı	$\mathcal{M}$	) I z	<b>41</b> .	Territorial of all Guidilly Of EDA CAD TOOIS, Definitions, Motion and Dispersions, On the Ed.	1
ı	V/ W/	/ [(	$\mathcal{M}$	Proceedings of the first International Symposium on March 2000, pp 395-405.	- 1
	7 7		1		.

Examiner Signature Considered Samue 383

<sup>•</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00) - MODIFIED Approved for use through 10/31/2002. OMB 0851-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

					ACTIVIENT OF COMMERCE
Substitute for form	1449A/F	то	Application Number	09/739,589	
DMATION D	1861 (	SCUDE	Filing Date	12/15/00	BECEIVED
EMENT BY	APPI	JOURE ICANT .	First Named Inventor	Steven Teig	2242
	•		Group Art Unit	2811	JUL 1 1 2003
e as many sheets a	as neces	ssary)	Examiner Name	A.M. Thompson	OFFICE OF PETITIONS
3	of	3 .	Attorney Docket Number	SPLX.P0014	
	RMATION DIEMENT BY	RMATION DISCLO EMENT BY APPL e as many sheets as neces	Substitute for form 1449A/PTO  RMATION DISCLOSURE FEMENT BY APPLICANT  e as many sheets as necessary)  3 of 3	RMATION DISCLOSURE First Named Inventor Group Art Unit Examiner Name	RMATION DISCLOSURE FINING Date  12/15/00  First Named Inventor  Steven Teig  Group Art Unit  Examiner Name  A.M. Thompson

1	75.8° (1)	MARKA 1997-1997 CONTROL OF THE AREA OF THE STREET OF THE S	
		NON PATENT LITERATURE DOCUMENTS	• • •
Van	42.	S. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.	<u> </u>
M	43.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.	
	44.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24th Euro Micro Conference, pp 192-195, August 1998.	
	45.	K. Powers et al., The 60° Grid: Routing Channels in Width d/square root 3, VLSI, 1991, Proceedings., First Great Lakes Symposium on Kalamazoo, MI, USA, pp 214-291, March 1991.	•
	46.	M. Alexander et al., Performance-Oriented Placement and Routing for field-programmable gate arrays, Proceedings of the European Design Automation Conference, pages 80-85, 1995.	,-
	47.	M. Alexander et al., Placement and Routing for Performance-Oriented FPGA Layout, VLSI Design, Vol. 7, No. 1, 1998.	• .
	48.	M. Igarashi et al., A Diagonal-Interconnect Architecture and Its Application to RISC Core Design, 2002 IEEE Solid- State Circuits Conference, pp 210-460, February 2002.	
	49.	P. Dood; et al. A Two-Dimensional Topological Compactor with Octagonal Geometry, 28th ACM/IEEE Design Automation Conference, pp 727-731, July 1991.	<u>.                                    </u>
	50.	P. Parikh, et al., Congestion Driven Quadratic Placement, Proceedings of Design Automation Conference, 1998, pp 275-278.	<u>:</u>
1.	51.	R. Putatunda et al., VITAL: Fully Automatic Placement Strategies for Very Large Semicustom Designs, Proceedings of the International Conference on Computer Design: VLSI in Computers and Processors, pp 434-439 October 1988.	;
	52.	S. Dutt, et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. on Computer-Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp 534-549.	
	53.	Y. Sekiyama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335. November 1991.	_

Examiner Date Considered 25

<sup>•</sup> EXAMINAR: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as Indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08 a & b (05-03) Approved for use through 05/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

g a plus sign (+) inside this box 1M

INFORMATION DISCLOSURE ATEMENT BY APPLICANT

4

(use as many sheets as necessary)

Substitute for form 1449A/PTO

of Sheet 1

Application Number	09/739,589	
Filing Date	12/15/00	
First Named Inventor	Steven Teig	RECEIVED
Group Art Unit	2811	OCT 2 4 2003
Examiner Name	A.M. Thompso	OFFICE OF PETITIONS
Attorney Docket Number	SPLX.P0014	PITTUE OF PEIIIIONS

					RELATED U.S. PATENT DOCUMENTS					
	Examiner		Cite -No.1	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data			
	X	1	1.	2002/0100007	12-06-2200	Steven Teig et al.	Parent application; present application is a continuation of 2002/0100007.			
	P		2.	2002/0133798	12-06-2000	Steven Teig et al.	Application regarding related placement technology			
Y	T		3.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	Continuation of 2002/0133798			
			4.	Preliminary Amendment S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210			
-	$\sqcap$		5.	S/N 09/737,220 -	12-13-2000	Steven Teig et al.	Continuation of 2002/0133798			
ı	$\Box$		6.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Continuation of 2002/0133798			
Ì	$\Box$		7.	S/N 09/739,460 -	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007			
	$\top$		8.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.			
			9.	Preliminary Amendment S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.			
ı		$\prod$	10.	S/N 09/742,171,	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.			
			11.	2003/0121015 S/N 09/745,067.	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.			
			12.	Preliminary Amendment S/N 09/745,067	12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.			
			13.	2002/0069397	01-13-2002	Steven Teig et al.	CIP of parent 2002/0100007.			
Ì	$\prod$		14.	/2002/0170027	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.			
	-	1	15.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.			

Date Examiner Considered Signature

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and n considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number(optional). \* See Kinds Dodges of this form with next communication to applicant. \*Applicant's unique citation designation number(optional). \* See Kinds Dodges of this form with next communication to applicant. \*Applicant's unique citation designation number(optional). \*\*See Kinds Dodges of this form with next communication to applicant. \*\*Applicant's unique citation designation number(optional). \*\*See Kinds Dodges of this form with next communication to applicant. \*\*Applicant's unique citation designation number(optional). \*\*See Kinds Dodges of this form with next communication to applicant. \*\*Applicant's unique citation designation number(optional). \*\*See Kinds Dodges of this form with next communication to applicant. \*\*Applicant's unique citation designation number(optional). \*\*Applicant's unique citation number of the citation number \*EXAMINER: Itilial if reference considered, whether or not citation is in conformance with MPEP DOB. Draw time unlocation in a considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number(optional). See Kinds Dobtes of USPTO Patent Dosuments at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.9). For the communication of the patent document. Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*\* Kind of document the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*\* Applicant is to place a check mark here if English anguage.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file tand by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours of complete, including anticipation and submitting the complete and submitted and submitting the complete and submitted and sub including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OCT 1 Gle2893 ypgg plus sign (+) inside this box TM +

Based on PTO/SB/08 a & b (05-03)
Approved for use through 05/31/2003. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

**Application Number** 09/739,589 Substitute for form 1449A/PTO **Filing Date** 12/15/00 INFORMATION DISCLOSURE **First Named Inventor** Steven Teig STATEMENT BY APPLICANT **Group Art Unit** 2811 (use as many sheets as necessary) **Examiner Name** A.M. Thompson SPLX.P0014 2 4 Attomey Docket Number Sheet

<del>-                                    </del>	RELATED U.S. PATENT DOCUMENTS									
/			RELATED U	I.S. PATENT DOCU	MENTS					
W	16	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	CIP of 2002/0133798					
P	17	Preliminary . Amendment S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.					
$\prod$	18	. 2003/0079193	12-07-2001	Steven Teig et al.	Application regarding related routing technology					
	19	. 2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology					
	20	. 2002/0147958	10-19-2001	Steven Teig et al.	Application regarding related routing technology					
	21	. 2003/0063614	01-04-2002	Steven Teig et al.	Application regarding related routing technology					
	22	. 2003/0064559	01-04-2002	Steven Teig et al.	Application regarding related routing technology					
	23	. 2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing technology					
	24	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology					
	25	Preliminary Amendment S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.					
	26	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology					
	27	Preliminary	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.					
	28	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Application regarding related routing technology					
40.4	29	Preliminary Amendment	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not					

	<u> </u>	
Examiner		Date 07
Signature X	)	Considered 22 1/1/2 2004
		, , , , , , , , , , , , , , , , , , , ,

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Instude copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number(optional). <sup>2</sup> See Mittle Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> King of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if Efficient language Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is in file and by Itia USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hoursto complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comment on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Approved for use through 05/31/2003. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Based on PTO/SB/08 a & b (05-03)

3	Substitute for form	1449A/P	ro ·	Application Number	09/739,589		
& Throng				Filing Date	12/15/00 RECEIVE		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		First Named Inventor	Steven Teig	OCT 2 4 2803			
STATEMENT BY APPLICANT			IOANI	Group Art Unit	2811	_	
(use as many sheets as necessary)				Examiner Name	A.M. Thompson OFFICE OF PETIT		
Sheet 3 of 4		4	Attorney Docket Number	SPLX.P0014			

	1	_			RELATED U	I.S. PATENT DOCU	MENTS
6	X			S/N 10/040,954			accurately reflect the claims of S/N 10/040,954.
Ī	1	Y	30.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Application regarding related routing technology
	1		31.	Preliminary Amendment S/N 10/040,953	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
			32.	2003/0066042 S/N 10/040,963 /	01-05-2002	Steven Teig et al.	Application regarding related routing technology
			33.	Preliminary Amendment S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
			34.	2002/0174412 S/N 10/041,942	01-07-2002	Steven Teig et al.	Application regarding related routing technology
			35.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/041,942.
1	1		36.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Application regarding related routing technology
			37.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
			38.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007
			39.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
W	y	7	40./	2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing

Examiner Signature	Date Considered B Juns 200 U

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of his form with next communication to applicant. Applicant's unique citation designation number(optional). See Kinds Codes of USPTO Patent Bocuments at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter Codes (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check-merk here if the highest language Translation is attached.

Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Approximately on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Office. U.S. Peternand Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

TER 2800

SPLX.P0014

Based on PTO/SB/08 a & b (05-03) Approved for use through 05/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of

information unless it contains a valid OMB control number **Application Number** 09/739.589 substitute for form 1449A/PTO 12/15/00 **Filing Date** RMATION DISCLOSURE **First Named Inventor** Steven Teig EMENT BY APPLICANT Group Art Unit 2811 (use as many sheets as necessary) **Examiner Name** A.M. Thompson

Attorney Docket Number

4

plus sign (+) inside this box TM

4

of

Sheet

1	١			RELATED L	I.S. PATENT DOCU	MENTS
H	+-					technology
	4	41.	2003/0115566	01-13-2002	Steven Teig	Application regarding related routing technology
4	11	42.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007
		43.	Preliminary Amendment S/N 10/047,982	01-14-002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982
$\sqcap$	$\Pi$	44.	2003/0066044	01-13-2002	Steven Teig et al.	Application regarding related routing technology
$\ $	11	45.	2003/0066045	01-13-2002	Steven Teig et al.	Application regarding related routing technology
		46.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007.
		47.	Preliminary Amendment for S/N 10/047,978	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.

FECHNOLOGY CENTER 2800 Date Examiner 1300 Considered Signature

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation in not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number(optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Examiner

11/13/03

Please type a plus sign (+) inside this box  $\rightarrow$   $\boxed{+}$ 

Based on PTC/UE/08 a & b (95-05)
Approved for use through 05/31/2003. OMB 0651-003:
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OME control number

	Substitute for form	1449A/PT(	o	Application Number	09/739,589
IME	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many shoots as necessary)  Filling Date 12/15/00  First Named Inventor Steven Teig  Group Art Unit 2825	12/15/00			
			First Named Inventor	Steven Teig	
				Group Art Unit	2825
	(use as many shoots	as necass	iry) .	Examiner Name	A.M.Thompson
Sheei	1	ol	7	Attorney Docket Number	SPLX.P0014

/					U.S	. PATENT DOCUMENTS	
	miner lals	C	Jumber	Code <sup>2</sup> (Il known)	Oate of Publication MM-DD-YYYY	Name of Palentes or Applicant of Cited Document	Pages, Columna, inea. Where Relivant Patisages in Relevant Figures Appear
$\int dt$		71.	2001/0009 031	A1	07-19-2001	Nilta et al.	Totavara rigulas Appear
1	1	2.	2002/0182 844	A1	.12-05-2002	Igarashi et al.	
1		3.	2003/0025 205	A1	02-06-2003	Shively	
1	Ш	4.	2003/0005 399	A1	01-02-2003	Igarashi et al.	
Ŀ	Ш	5.	4,593,363		06-03-1986	Burstein et al.	
Ţ	Ш	6.	4,855,929		08-08-1989	Nakajima	
L	11	7.	5,267,176	T	11-30-1993	Antroich et al.	<del></del>
l	11_	8.	5,375,069		12-20-1994	Satoh et al.	
	11	9.	5,587,923		12-24-1996	Wang	<del></del>
	Щ	10.	5,618,744		04-08-1997	Suzuki et al.	
	ЦĿ	11.	5,633,479		05-27-1997	Hirano .	
_	Ц.,	12.	5,637,920		06-10-1997	Loo	
_	$\perp$	13.	5,640,327		06-17-1997	Ting	· · · · · · · · · · · · · · · · · · ·
1	<u> </u>	14.	5,663,891		09-02-1997	Bamji et al.	
4	$\perp$	15.	5,757,089		05-26-1998	Ishizuka	
1	1.	16.	5,784,289		07-28-1998	Wang	
1	1	17.	5,798,936		08-25-1998	Cheng	
4.		18.	5,838,583		11-1998	Varadarajan et al.	
1	1	19.	\5,889,677 ·	·	03-30-1999	Yasuda et al.	<del></del>
Y	Ť	20.	5,980,099	LT	11-09-1999	Jones et al.	<del></del>

Old lating 1		• • •	Considered	12 L	me-200
. (	\		- Doridiativo	10x ZV	Vici dao
EVALANTE A	. \ '	•	* *		
EVWARREN: IIIIDSI ILIGIC	orance considered, whether or not citation is in cor of this form with next communication to applicant	Nonnance with MPEP and	Drawline there	h =1x=x'== 11 = - x 1	1.
considered Include bopy (	of this form with next communication to applicant.	Annicant's unions citatio	Diaw init anoug	n catation it not it	i conformance and not
USPTO Patent Documents	Selection of the year of the prince of the first of the f	Oligip Sching a property	ni designation min	nber(optional).	See Kinds Codes of
"apanese palent document	the the indication of the core of the second of the c	oc untresped are pochules.	TH, DY 1/18 19/0-1010	ir code (WIPO S	ilandurd S1.3) * Fro
the appropriate synthesis as	its, the indication of the year of the reign of the furnishments indicated on the document under WIPO Standard	nnator must precede the set	rial number of the	patent documer	nt Sking of document out
Translation is stacked	A MINICARDO C : THE DOCUMENT DUGST AND CHANGE	C ST 16 if possible. "Appl	licant is to place a	check mark him	If If Exilled to provide
The same of the condition of the conditi					e a medican unigonigo

Date

Translation is attached.
This collection of information is required by 37Ci-R 1.97 and 1.98. The intermution is required to obtain or retain a benefit by the public which is to the (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 name to complete including gathering, preparing, and submitting the completed application from to the USPTO. Time with vary depending upon the individual case. Any commence on the amount of time you require to complete this form analysis and statement Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FRES OR COMPLETED FORMS ADDRESS. SEND TO: Commissioner for Potents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the torm, wall 1-800-PTO-9199 and select option 2.

DEC 1 2 2003

OFFICE OF PETITIONS

Examilier

Please type a plus sign (+) inside this box -

Based on PTO/SR/98 a 6 b (05-08)
Approved for use through 05/31/20/3. OMB 0651-0631
U.S. Patent and Trademark Olico, U.S. DEPART MENT OF COMM/FRCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a confection of information unless it contains a valid OMB confect number

Substitute for form 1449A/PTO	Application Number	09/739,589
INFORMATION DISCUOSIDE	Filing Date	12/15/00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	First Named Inventor	Steven Teig
	Group Art Unit	2825
(use as many sheets as necessary)	Examiner Name	A.M.Thompson
Sheet 2 of 7	Altorney Docket Number	SPLX.P0014

	K	./	\			U.S	S. PATENT DOCUMENTS
		8	21.	6,070,108		05-30-2000	Andreev et al.
	1		22.	6,128,767		10-03-200	Chapman
	1	П	23.	6,209,123	BI	03-27-2001	Maziasz et al.
	$\perp$	П	24.	6,253,363	B1	06-26-2001	Gasanov et al.
		Ц	25.	6,295,634	Вı	09-25-2001	Matsumoto
	L		. 26.	6,324,674	B2	11-27-2001	Andreev et al.
	Ŀ	$\perp$	27.	6,324,675	D1	11-27-2001	Dutta et al.
	. _	L	28.	6,327,693	81	12-04-2001	Cheng et al.
_	L		29.	6,327,694	B1	12-04-2001	Kanazawa
_	Ц	LJ	. 30.	6.330,707	<u> </u>	12-11-2001	Shinomiya et al.
	Ц		31.	6,378,121	B1.	04-23-2002	Hiraga
`	П		32.	6,407,434	B1	06-18-2002	Rosloker et al.
_	Ц	$\Box$	33.	6,412,102	81	06-25-2002	Andreev ct al.
	Ц		34.	6.415.422	Bi	07-02-2002	Mehrotra et al.
_	Ц	$\perp$	.35.	6,442,743	B1	08-27-2002	Sarrafzadeh et al.
Ш	Ц	$\perp$	36.	6,448,591	81	09-10-2002	Juengling
	4	1	37.	6,473,891	81	10-29-2002	Shively
1.4	4	$\perp$	38.	6,480,991	ВІ	11-12-2002	Cho et al.
1.1	_].	$\perp$	39.	6,490,713	· B5	12-03-2002	Matsumoto
$\square$	4	<u>-</u>  _	40.	6,519,751	B2	02-11-2003	Sriram et al.
Ц	_	1	41.	6,543,043	В١	04-01-2003	Wang et al.
$ \bot$	1	$\perp$	42/	6,546,540	BI	04-08-2003	Igarashi et al.
¥	¥,	X	43.	6,557,145	B2	04-53-5003	Boyle ot al.

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through diation if not in conformance and not considered, include copy of this form with next communication to apparant. \*Applicant's unique citation designation number(optional). \*See Kinds Codes of LSPTO Pulbut Documents at <a href="https://www.unique.citation.org/lines/">www.unique.citation.org/lines/</a> \*See Kinds Codes of LSPTO Pulbut Documents at <a href="https://www.unique.citation.org/lines/">www.unique.citation.org/lines/</a> \*See Kinds Codes of LSPTO Pulbut Documents at <a href="https://www.unique.citation.org/lines/">www.unique.citation.org/lines/</a> \*See Kinds Codes of LSPTO Pulbut Documents by the two-letter code (WIPO Stendard ST.3). \*For Japanese patient-security, the indication of like year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if Emplish tanguage.

Date Considered

the appropriate symbols as indicated on the document under WIPO Standard ST, 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37CHR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to the (and by the USPTO) to process) an application. Considerationly is governed by 35 U.S.C. 1/22 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Pullent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED

Examiner

Flease type a plus sign (+) Inside the pox →

Pased on PTO/S6/30 a & b (35-03)

Approved for use through 05/31/2003 CMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a while OMB control number

•	Substitute for for	n 1449A/	סזיו	: .	Application Number	09/739,589
INFO	RMATION	nieci.	Oeun		Filing Date	12/15/00
	EMENT BY				First Named Inventor	Steven Taig
•		•	•••		Group Art Unit	2825
(vs	e as many slicul	s as nece	заргу)	·	Examiner Name	A.M.Thompson
Shect	3 0 7			7	Allomey Docket Number	SPLX.P0014

	<del></del>			<del></del>		·
	· · <del></del>	Ų.S	PATENT DOCUMENTS		•	
1.70)	44. 6,567,967 B2	05-20-2003	Greidinger et al.			
			<u> </u>		<u>. 1</u>	

Examin Initial		Cite Nu.	Onice	oreign Patent Doc. Number	Kind Circ (if known		Date of Publication MM-DD YYYY	Pages, Columna, Linse, Where Rolevant Passages or Relevant Figuron Appear	Ť
	) <u>)</u>	45.	JP	411296560	A.	Malsumoto et al.	10-29-1999		1
V		46.	JP	2000-82743	A	lgarashi et al.	03-21-2000	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	
		47,	JP	H03-173471	A	Tawada et al.	07-26-1991	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	1,
		48.	JР	H05-243379	Α	Masako Kubota	09-21-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	
		49.	JP	H05-102305	A	Akihiro Sato	04-23-1993	with Japanese Patent Office's English translation of Abstract; and with English translation of the	-

Signature			4			Constitu	بأسأن سمده	ノス~し		スカル
				<del></del>		LOUISIUS	Jieu (J	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	INE-2	אינטע
- 1	'									
FYAMNED	Initial it refers	<b>)</b>	she ken to radiadw. Acutecimumica ixe		•		•	<i></i>		. /
CAMMINETY	/ u terete	riçe considerea,	whether or hat off	ation is an conton	nance with MPEP I	600 Drow line	through aleas	۱ د - ۱ د مان		. <i>/</i> .
considerec. If	nclude copy of	links torin with no	NI Communication	to applicant Ta	colitant's insigns of	incina desire	anough Gran	inou n uat tu' c	ontormance an	e not
USPTO Paren	d Noniments of	t objective in the second	or MPEP 901.04.	to apprount	I TANKS IN S OF INCIDENCE CO	ii aliicon designati	on number(c	olionan. "S	iee Kinds Code	P est
lun		, A.waraniana	S OF WIPE P 901.04.	FIABLO Since	hat issued the docu	ment, by the h	andone code	MANDO CL		3 0
JAVAHAYA CAM	eni noci <b>mani</b> e.	ana warration o	f the water of the!				TO THE PERSON WITH THE	2 177 IF U 3(3)	ROLLING S. F. (2)	40.0

Date

00

Japanese patent occurrents in the stock of the reign of the refer of the part of the part of the part of the part of the region of the year of the refer of the part of the pa

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

RECEIVED

Please type a plus sign (+) Inside this box →

Based on PTC//SS/09 a 3 c (05-03)
Approved for use through CS/31/2003. OMB 0551-0631
U.S. Patent and Tradémark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond a collection of information unless it contains a valid OMB central number

					and the same of same control to the same of the same o		
•	Substitute for to	orm 1449A/PT(	<b>o</b>	Application Number	09/739,589		
INFO	RMATION	DISCLO	SIIDE	Filing Date	12/15/00		
STAT	EMENT E	Y APPLI	CANT	First Named Inventor	Steven Telg		
Luc	G 26 manu aba	-1		Group Art Unit	2825		
<del></del> -	e as many sne	els as necassa	iry) ————————————————————————————————————	Examiner Name	A.M.Thompson		
Sheet	4	01	. 7	Altorney Docket Number	SPLX.P0014		

1	\	1		<del></del>	FOREIGN PATENT DOCUMENT	s		
	50.	JP HO	7-86407	A	Shinpel Miura	03-31-1995	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	, v
	51.	JP 110	0-162279	Α	Masaaki Yoshida	06-20-1997	With Japanese Patent Office's English translation of Abstract; and with English translation of the application.	\ \\ \'

· .			
Examiner Signature	X	7	 $\rightarrow$
EXAMINER	Initial it ref		 

Date Considered

EXAMINER: Initial if reference considered, whether, or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next cram under on to applicant. Applicant's unique citation designation number(optional). See Kinds Codes of USPTO Patent Documents of www.unito.com of kinds of the Emperor must precede the document, by the two-latter code (WIPO Standard ST. 3). For the appropriate symbols as indicated on the document will be emperor must precede the serial number of the patent document. Kind of document by Translation is attached.

Translation is attached.

Translation is attached.

This collection of information is required by 37CF4 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is folial (and by the including galizating, preparing, and submitting the complete do application form to the USPTO. Time will vary depending upon the individual case. Any commercial content and trademark Office, U.S. Deparament of Commencial P.O. Box 1450, Alexandria, VA 22313-1450.

DO NOT SEND FEES OR COMPLETED FORMS 1.O THIS ADDITION.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED

Examine

Signature

Pléase type a	olus sign	(+) inside th	is box →	+

Based on PTO/SB/08 a 3 b (05-03)
Approved for use through 05/31/2003. OMB 0551-0031
U.S. Palent and Tradernark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO	Application Number	09/739,589
INFORMATION DISCLOSURE	Filing Date	12/15/00
STATEMENT BY APPLICANT		Sleven Teig
	Group Art Unit	2825
(use as many sheets as necessary)	Examiner Name	A.M.Thompson
Sheet 5 of	7 Attornoy Docket Number	SPLX.P0014

L	••			FOREIGN PATENT DOCUMENTS	
Ц	1			NON PATENT LITERATURE DOCUMENTS	
	amti nitiat		- Nul	Include name of the author (in CAPITAL LETTERS), hitle of the anide (when appropriate), title of the item (book, magazine, journal, serial, sympassium, canado, etc.), cate, page(c), volume-Issue number(s), publisher, city and/or country where published	Ţ
	Ø		52)	Computing Machinery, vol. 37, No. 2, April 1990, pp. 213-223.	
	I		53.	Brady, L. et al., Channel Routing on a 60° Grid, extended abstract, pp. 956-931.	+-
	1		54.	Brambilla, A. et al., Statistical Method for the Analysis of Interconnects Delay in Submicrometer Layouts, IEEE, 8/2001, pp. 957-966.	-
Ш			55.	Carothers, K., A Melhod of Measuring Nots Routability for MCM's General Area Routing Problems, 1999, pp. 186-192.	
			56.	Chen, H. et al., Physical Planning of On-Chip Interconnect Architectures, 2002, IEEE, International Conference, pp. 30-35.	
			57.	Cheng, K. et al., Manhattan or Non Manhattan? A Study of Alternative VLSI Routing Architectures, pp 47-52, 2000.	
			58.	Cheng, K., Steiner Problem in Octilinear Routing Model, a Thesis Submitted for the Degree of Master of Science, National University Singapore, 1995, pp. 1-122.	$\vdash$
			59.	Chip Model with Wiring Cost Map, August 1983, IBM Technical Disclosure Bulletin, vol. 26, iss. 3A, pp. 929-933.	
		Ц	[	Cong, J. et al., Efficient Heuristics for the Minimum Shortest Path Steiner Arborescence Problem with Applications to VLSI Physical Design, Cadence Design Systems and UCLA Computer Science Department, pp. 88-95.	
		Ц	,	Cong. J. et al., Performance-Driven Multi-Layer General Flouting for PCB/MCM Designs, UCLA Computer Science Department, 1998, pp. 356-361.	$\dashv$
$\perp$	Ш			Enbody, R. et al., Near-Optimal n-Layer Channel Routing, 23 <sup>rd</sup> Design Automation Conference, 1986, pp. 708-714.	$\dashv$
]:	Ш	_ _	$-\Delta$	Fang, S. et al., Constrained Via Minimization with Practical Considerations for Multi-Layer VLSI/PCB  Routing Problems, 26 <sup>th</sup> ACM/IEEE Design Automation Conference, 1991, pp. 60-65.	
*			541 A	Hom, I. et al., Estimation of the Number of Routing Layers and Total Wirelength in a PCB Through Wiring Distribution Avalysis, 1996, pp. 1-6.	-
	4	٠.	IV		

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through diation if not in conformance and not considered. Include copy of this form with rest to minimization to applicant, Applicant's unique disting designation number(optional). \* See Kinds Codes of USPTO Patent Deciments at www. \*\*value and MPEP 901.04\*\* \*\* Finer Office that issued the document, by the two-letter code (WIPO Standard ST.3)\*\* For Japanese patent documents, the implication of this year of the region of the region of the region of the serial number of the patent document. \*\* Kind of document by the document of the patent document. \*\* Kind of document by the suppopulation is allected.\*\* \*\* Applicant is to place a check mark here it English language.\*\*

Date

Considered

Translation is attached.
This collection of information is required by 37CFN 1.87 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 frours to complete, including gathering, preparing, and submitting the designation forms to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form embror suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Pelent and Trademark Office, U.S. Department of Commence, P.O. Box 1450, Alexandria, VA 22313-1450.

ADDRESS. SEND TO: Commissioner for Patients, P.O. Box 1450, Alexandria, VA 22313-1450.

If you mentifuscustance in completing the form, call 1-800-PTO-0199 and select option 2.

RECEIVED

Please type a plus sign (+) inside triis box -> | 4

Based on PTC/SB/08 u. 8. p. (05-05)

Approved for use through 05/31/2003. OMD 0051-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB opurer number

			This is a sent the table to the time of
Substitu	ile for form 1/1/19//PTO	Application Number	09/739,589
INFORMA	TION DISCLOSURE	Filing Date	12/15/00
STATEME	NT BY APPLICANT	First Named Inventor	Steven Teig
lusa av m	any shaats as accessary)	Group Art Unit	2825
<del></del>	ery snows as necessary)	'Examiner Name	A.M.Thompson
Sheet	6 n' 7	Attorney Docket Number	<del>                               </del>
Sheet	6 n' 7		SPLX.P0014

•	Ц		1	$ \overline{} $	FOREIGN PATENT DOCUMENTS	
		M	0	65.	Hong, X. et al., Performance-Driven Steine: Tree Algorithms for Global Routing, 30 <sup>th</sup> ACM/IEEE Design Automation Conference, 1993, pp. 177-181.	· 
			)	66.	Hu, J et al.: "A Timing-Constrained algorithm for Simultaneous Global Routing of Multiple Nets".  IEEE/ACM International Conference on Computer Aided Design. ICCAD – 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD). San, Jose, CALISA FOR No. 2000.	<del> </del>
			·	67.	Design. ICCAD – 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000.	
	1			68.	Khoo, K. et al., An Efficient Multilayer MCM Router Based on Four-Via Routing, 30th ACM/IEEE Design  Automation Conference, 1993, pp. 590-595	
	1	1	1	69.	Lillis, J. et al., Table-Lookup Methods for Improved Performance-Driven Routing, 1998, pp. 368-373.	
1	1			70.	Lipski, W. et al., A Unified Approach to Layout Wirability, Mathimatical Systems Theory, 1987, pp. 189-	
	1			71.	Lodi, E. et al., A Proliminary Study of a Diagonal Channel-Routing Model, Algorithmica, 1989, pp.585-	$\dashv$
	Ŀ		I	72	Lodi, E. et al., 1.ecture Notes in Computer Science, A.4d Channel Router for a Two Layer Diagonal Model, pp. 464-476, July 1988.	-
				73.	Naclerio, N. et al., Via Minimization for Gridless Layouts, 24th ACM/IEEE Design Automation Conference, 1987, pp. 159-165.	- .
	Ĺ.		$\prod$	74.	Nam, G. et al, Satisfiability-Based Layout Revisited: Detailed Routing of Complex FPGAs Vin Search-	4
				75.	Oh, J. et al., Constructing Lower and Upper Bounded Delay Routing Trees Using Linear Programming, 33" Design Automation Conference, 1996.	-
				76.	Partitioning Logic on to Graph Structure, IBM Technical Disclosure Bulletin, February 1990, vol. 32, iss.	
[	7		,	77.	Phillips, N., Channel Routing by Constrain! Logic, Department of Computer Science Southern Illinois University, ACM, 1992	$\downarrow$
			-			] .

Examiner					· . :		•		
		<i>//</i> /	,			 			
Signature	VI 1			,	<b>)</b> .	Date	M		
	~ <del>/  </del>	/				 Considered	1/1	l	4 Dil'
ſ		<u> ح</u>				 CONSIDER	2011	11112	ציטע
· EXAMINED	Initial it sat								<del></del>

EXAMINEN Initial il reterence considered, which have a not explicate in a conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this inform with next decrementation to applicant. Applicant a unique citation designation number(optional). See Kinds Codes of USPTO Parent Documents at a way to prove the reign of the Emperor inust precede the serial number of the patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by Translation is attached.

This collection of information is received by 120 by

Translation is attached.

This collection of information is required by 37CF-B-1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the LSPTO to process) an application. Confidentiality is coverned by 38 U.S.C. 122 and 37 CFB-1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to USPTO. There will vary depending upon the individual case. Any comments and Tracemark Office, U.S. Department of Commence, 20 Box 1450, Alexandria, VA 22113-1450. DO NOT SEND FEES OR COMPLETED-FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

it you meet maketimes in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED

Please type a plus sign (+) inside this box →

Uased on PTC/SB/CE a K b (US 03)

Approved for use firrough 05/01/2003 CMB (ES\*-003) =

U.S. Patent and Trademark Office; U.S. DEPARTMEN\* OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respirate to a undection of information unless it contains a valid CMB control number.

Substitute for form 1449A/PTO .	Application Number	09/739,589
INFORMATION DISCLOSUR	Filing Date	12/15/00
STATEMENT BY APPLICAN		Steven Teig
	Group Art Unit	2825
(use as many sheets as necessary)	Examiner Name	A.M.Thompson
Sheet 7 of	7 Attorney Docket Number	SPLX:P0014

٠,	+	<del>\</del>		
	1	X		FOREIGN PATENT DOCUMENTS
1	$\Delta$	V.	78.	Takashima, Y. et al, Routability of FPGAs with Extremal Switch-Block Structures, IEICE Trans. Fundamentals, vol. E81-A, No. 5, May 1998, pp. 850-856.
	1	V	79.	Thakur, S. ot al., Algorithms for a Switch Module Routing Problem, 1994, pp. 265-270.
	7	7	80.	Theune, D., et al., HERO: Hierarchical EMC-constrained routing, 11/1992; IEEE np 468-472
	I		81.	Tseng, H., Timing and Crosstalk Driven Area Routing, pp. 378-381.
			82.	Wang, D., Novel Routing Schemes for IC Layout, Part I: Two-Layer Channel Routing, 28th ACMIEEE Automation Conference, 1991, pp. 49-53.
L	1	L	. 83.	Wang, M. et al., Modeling and Minimization of Routing Congestion, Jan. 2000, IEEE proceedings of ASP-DAC. Asia and South Pacilic, pp. 185-190.
L	1		84.	Wood, G. et al., FPGA Routing and Routability Estimation Via Boolean Satisfiability, Department of
L	1	L	85.	2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2063: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065: 2060-2065:
L	1	1_	86.	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1996.
	$\perp$	Ц	87.	University of Toxas, 1998, on, 374,377
	\$	*1	88.	Zhou, H. et al., Optimal River Routing with Crosstalk Constraints, ACM Transactions on Design Automation of Electronic Systems, vol. 3, No. 3, July 1998, pp. 496-514.

Examiner Signature Date Considered 35 June 2007

Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the LSPTC to process) an application. Confidentiality is governed by 35 U.S.C. 172 and 37 CFR 1.14. This collection is estimated to take 2 hours to-complete, including gathering, preparing, and submitting the completed application form to the USPTO. Thre will vary depending upon the individual cast. Any comments and frademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. UO NOT SUND FEES OR COMPLETED FORMS TO THE ADDITIONS. SEND TO: Commissioner for Patients, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

RECEIVED

## Stattler Johansen & Adeli 10/08/03

Mani Adeli → A. Thompson

09/12

Please type a plus sign (+) inside this bex \*\*\*

Unstitution PTO/SB/06 a & n (05-03) Approved for use through 05:31:2003. OMB 0551-0031
U.S. Paleni and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Papervork Reduction Act of 1995, no persons are required to respect to a collection of Information unless it contains a valid OMB control number

Substitute for form 1449A/PTO	Application Number	09/739.589
INFORMATION DISCLOSURE	Filling Date	12/15/00
STATEMENT BY APPLICANT	First Named Inventor	Steven Teig
(use as many shoots as necessary)	Group Art Unit	2811
· · · · · · · · · · · · · · · · · · ·	Examiner Name	A.M. Thompson
Sheel 1 of 4	Allomey Docket Number	SPLX.P0014

г		_					
L	<u>.</u>			·	RELATED	U.S. PATENT DOC	UMENTS
Ľ	X37	als.	1 N	ite U.S. Palent Documen o. Number	Date of filing MM DD-YYYY	Name of Pateniee of	
R	X		14	2002/0100007	12-06-2200	Steven Teig et al.	Parent application; present application is a continuation of 2002/0100007.
Ĺ	Ц		1.2.	2002/0133798	12-06-2000	Steven Teig et al.	Application regarding related placement
Ĺ	Ц		3.	2002/0073390. S/N 09/737,210	12-13-2000	Steven Teig et al.	technology Continuation of 2002/0133798
		1	4.	Preliminary Amendment S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment Is submitted as-
_			5.	S/N 09/737,220	12-13-2000	Steven Teig et al.	accurately reflect the claims of S/N 09/737,210 Continuation of 2002/0133798
	1	1	6.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Continuation of 2002/0133798
:	_	1	7.	S/N 09/739;460	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007
		1.	8.	2002/0124231 S/N 09/739.580	12-15-2000	Steven Telg et al.	Continuation of parent 2002/0100007.
			9:	Preliminary Amendment S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N
1	1	L	10.	S/N 09/742,171	12-19-2000	Steven Teig et al.	09/739;580.  Continuation of parent 2002/0100007
1	L	ļ	111.	2003/0121015 S/N 09/745,067	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007
			12.	Preliminary Amendment S/N 09/745,067	12-19-2000	Steven Telg et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.
1	Ļ	L.	13.	2002/0069397	01-13-2002	Steven Teig et al.	CIP of parent 2002/0100007.
Į.,		[]	14	/2002/0170027	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.
			15.	2002/0157075	02-20-2002	Steven Toig et al.	CIP of parent 2002/0100007.
		Ι.					

Examiner							
Signature				D	ate	061	
	177	<u> </u>	· · ·	C	onsidered	23-111	18-200V
FXALMUED		 * •				EXE JULIA	C Deep 7

EXAMINER initial if reference considered, whether or not distion is an conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. "Applicant's unique citation designation number(opticinal). See Kints Codes of Japanese patent documents, the indication of the year of the retign of the Emporor must precede the senial number of the potent document. "Kind of document by the document document of the potent document." Kind of document by the standard standard of the potent document to the potent document. "Kind of document by the standard of the potent document." Kind of document by the standard of the potent document."

Translation is allocked

This Collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and sub-nitring the completed application form to the USPTO. Time will vary depending upon the individual case. Any continents and trade-var office, U.S. Department of Commerce, P.O. Bux 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9100 and select option 2.

RECEIVED

Please type a plus sign (+) inside this box \*\*\* | +

Based on PTO/SB/08 a & b (05-03)
Approved for use through 0/u31/2003. OAIB 0851-0031
U.S. Patent and Trademark Cifice, U.S. DEPARTMENT OF COMMERCE U.S. Patent and materials Course. U.S. Patent and Index the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a patrict CVPB control number.

Substitute for form 1449A/PTO	Application Number	09/739,589
INFORMATION DISCLOSURE	Filing Date	12/15/00
STATEMENT BY APPLICANT	First Named Inventor	Steven Teig
(use as many sheets as necassary)	Group Art Unit	2811
	Examiner Name	A.M. Thompson
Sheet 2 of 4	Allomey Docket Number	.SPLX.P0014

$\boldsymbol{ o}$	_					
1	1	<u> </u>		RELATED	U.S. PATENT DOC	UMENTS
	$\mathcal{A}()$	16.	2003/0088841 S/N 10/329,241			···
	S O	17.	Preliminary Amendment S/N 10/329.241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.
X		18.	2003/0079193	12-07-2001	Sleven Teig et al.	Application regarding related routing technology
L	M	19.	2003/0018947	12-07-2001	Steven Teig et al.	Application regarding related routing technology
		20.	2002/0147958	10-19-2001	Steven Telg et al.	Application regarding related routing technology
L	$\coprod$	21.	2003/0063614	01-04-2002	Steven Toig et al.	Application regarding related routing technology
<u> </u>		22.	2003/0064559	01-04-2002	Sleven Teig et al.	Application regarding related routing technology
	$\coprod$	23.	2003/0063568	01-04-2002	Steven Teig et al.	Application regarding related routing
	_	24.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Application regarding related routing technology
		25.	Proliminary Amendment S/N 10/040,915	01-05-2002	Sleven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
		26.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Application regarding related routing technology
·		27.	Preliminary Amendment S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N
				01-05-2002	Steven Teig et al.	10/040,948. Application regarding related routing
¥	1	29.	Preliminary Amendment	01-05-2002	Steven Telg et al.	technology This Preliminary Amendment is submitted as the publication 2003/0023943 does not
			17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 28.	17. Amendment S/N 10/329,241  18. 2003/0079193  19. 2003/0018947  20. 2002/0147958  21. 2003/0063614  22. 2003/0064559  23. 2003/0063568  24. S/N 10/040,915  Proliminary Amendment S/N 10/040,915  26. 2002/0166105 S/N 10/040,948  Preliminary Amendment S/N 10/040,948  27. Preliminary Amendment S/N 10/040,948  28. 2003/0023943 S/N 10/040,954	16.   2003/0088841   12-23-2002   17.   Amendment   12-07-2001   18.   2003/0079193   12-07-2001   19.   2003/0018947   12-07-2001   20.   2002/0147958   10-19-2001   21.   2003/0063614   01-04-2002   22.   2003/0064559   01-04-2002   23.   2003/0063568   01-04-2002   24.   2003/0101428   27.   Amendment   S/N 10/040,915   01-05-2002   26.   2002/0166105   27.   Amendment   S/N 10/040,948   01-05-2002   28.   2003/0023943   28.   2003/0023943   28.   2003/0023943   01-05-2002   28.   2003/0023943   01-05-2002   28.   2003/0023943   01-05-2002   28.   2003/0023943   01-05-2002   28.   2003/0023943   01-05-2002   28.   2003/0023943   01-05-2002   29.   29.   P/eliminary   20.   P	10    S/N 10/329,241   12-23-2002   Steven Teig et al.

Examiner Signature Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (pulsual). See Kincs Codes of USPTO Patent Documents an investigation of midication of this year of the respin of the Emperor must precode the sonial number of the patent document. Which is not propriet symbols be indicated on the document under WIPO Standard ST 3). For the appropriate symbols be indicated on the document under WIPO Standard ST 16 if possible. \*Applicant is to place to direct mark here if English language.

Translation is allacted.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or rotain a barrelit by the public which is to fat (and by the USPTO) to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including galacting, properting, and submitting the completed application fram to the USPTO. Time via very depending uses the Individual case. Any comments on the original required to complete this from and/or suggestions for reducing the burden, should be sent to the Chief internation Officer, U.S. Patert and Trademark Office. U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents; P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

RECEIVED

Examiner Signature

Please type a plus sign (+) inside this box 19

Based on PTO/S6/06 a & b (05-03)
Approved for use through 05/3 1/2003 - 0.645 0(251-093)
U.S. Patent and Trademork Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1895, no persons are required to respect of information unless it contains a valid OMB control number.

•	Substitute for fo	orm 1449A/PT	ю	Application Number	09/739,589
INFO	RMATION	DISCLO	SURE	Filing Date	12/15/00
STATEMENT BY APPLICANT				First Named Inventor	Steven Teig
tu	(use as many specis as necessary)			Group Art Unit	2811
				Examiner Name	A.M. Thompson
Sheet	3	0,	4	Allorney Docket Number	SPLX.P0014

11	1					
	1	$\leq$		RELATED	U.S. PATENT DOC	UMENTS
1 d	2	22	S/N 10/040,954			accurately reflect the claims of S/N 10/040,954
A		) 30	0. 2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	
1	$\frac{1}{2}$	31	S/N 10/040,953	01-05-2002	Sleven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040.953
-	<del> </del>	32	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Application regarding related routing .
	1.	33	S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amondment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
<del>     </del>	-	34	S/N 10/041,942	01-07-2002	Steven Telg et al.	Application regarding related routing technology
		35.	Preliminary Amendment S/N 10/041,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N
		36.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	10/041,942. Application regarding related routing technology
		37.	Preliminary Amendment S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/041,957.
-		38.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007
1		39.	Preliminary Amendment S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
4.	7	40.	2003/0066043	01-13-2002	Steven Teig et al.	Application regarding related routing

Considered 03 June 10	2
XAMINER Indial it colores a consistent of the	_
insidered. Include copy of this train with real communication is in conformance with MPEP 609. Draw line through citation if not in conformance and not 57TO Allent Decements. It was supported to the communication to applicant. Applicant's unique citation designation number(optional). Sele Kinds Codes of page 1940 of the communication of the year of the reign of the Emperor must proceed the smith unique of the two-letter code (WIPO Standard ST 3). For	
Princes patent observed is the horizontal part of the Post 164. Enter Office that issued the document, by the two-letter code (WPO Standard ST 3). For a upper read symbols as indicated on the document under WPO Standard ST 3). For an instation is attached.  **Example of the patent document under WPO Standard ST 46 if possible **Applicant is a parent document. **Exist of document by the patent document. **Exist of document by the patent document. **Exist of the patent docume	
Expurpments symbols as indicated on the document under WiPO Standard ST 16 if possible Applicant is to blace a check mark here if English taliquage is collection of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion is required by 37059 103 multi-specific production of intermetion in the production of intermetion of intermetion in the production of intermetion	7

Date

Translation is attached.
This collection of information is required by 37CFR 1.07 and 1.08. The information is required to obtain or rotain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the addictual case. Any comments or inelations of the Confidence of the Complete in the Confidence of the Confidence of

It you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED

Prosse type o plus sign (+) inside this tox 14

Baseti on PTO/SB/08 a & b (05-03) Approved to use through 05/01/2002, OMD 0651-0031 U.S. Palent and Trademark Office, U.S. DEPARTMENT OF COMMERCE work Reduction Act of 1995, no persons are required to reaportd to a collection of

Substitute for form 1449A/PTO	Application Number	09/739.589
INFORMATION DISCLOSURE	Filing Date	12/15/00
STATEMENT BY APPLICANT	First Named Inventor	Sleven Teig
	Group Art Unit	2811
(use as many sheets as necessary)	Examiner Name	A.M. Thompson
Sheet 4 of 4	Allorney Docket Number	SPLX.P0014

_		<del></del>		RELATED	J.S. PATENT DOCL	JMENTS
4	0	$\leq$				technology
	9	41	2003/0115566	01-13-2002	Steven Teig	Application regarding related routing technology
1		42	S/N 10/047,982	01-14-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007
1	$\prod$	43	Preliminary Amendment S/N 10/047,982	01-14-002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982
		44	2003/0066044	01-13-2002	Sleven Teig et al.	Application regarding related routing technology
4	41	45	2003/0066045	01-13-2002	Steven Teig et al.	Application regarding related routing technology
$\perp$	1	46.	2003/0088845 S/N 10/047,978	01-13-2002	Steven Teig et al.	Application regarding related routing technology. Also, CIP of parent application 2002/0100007
V	VV	47.	Preliminary Amendment for S/N 10/047,978	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088845 does not accurately reflect the claims of S/N 10/047,978.

Examiner Signature

Date Considered

\* EXAMINER: Initial if reference considered, whether or not disting is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered (initial or copy) of this form with text communication to applicant. Applicant's unique citation designation number optional. See Kinds Codes of USPTO Patent Document, at 257 (2002) of MPEP 91.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent document, the indication of the year of the patent document by the patent document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. (if if possible. Applicant is to place a check mark here if English language.)

Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete displaying, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the ancient of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief information Officer, U.S. Patent and Transmark Office, U.S. Copputment of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

It was reced assistance in completing the form, call 1-809-PTO-0189 and select option 2

RECEIVED